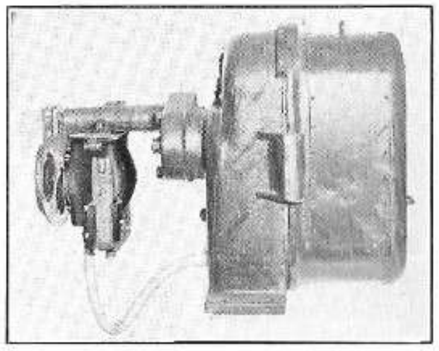
"UNION" *Style D* SEMAPHORE LAMP

BULLETIN Nº 128

TRADE MARK Union Switch & Signal Co. TRADE MARK
SWISSVALE, PA.

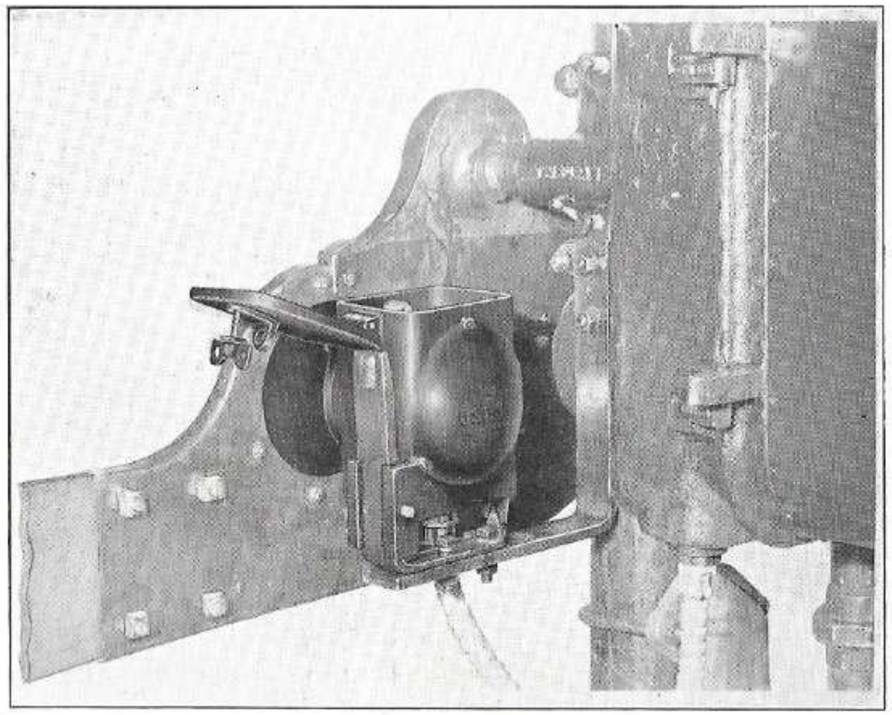
Union Style D Semaphore Lamp

THE Union Style D, cast iron semaphore lamp was developed as an efficient and economical semaphore lamp to be used in place of the ordinary oil burning lamp. The Style D lamp, besides reducing the maintenance problems existing with the old oil-burning lamps, is interchangeable with the lamp shown on A.R.A. drawing 1563-A; it fits the A.R.A. lamp bracket; has the same light center, and is smaller in nearly all its dimensions, thus coming well within the A.R.A. specifications.

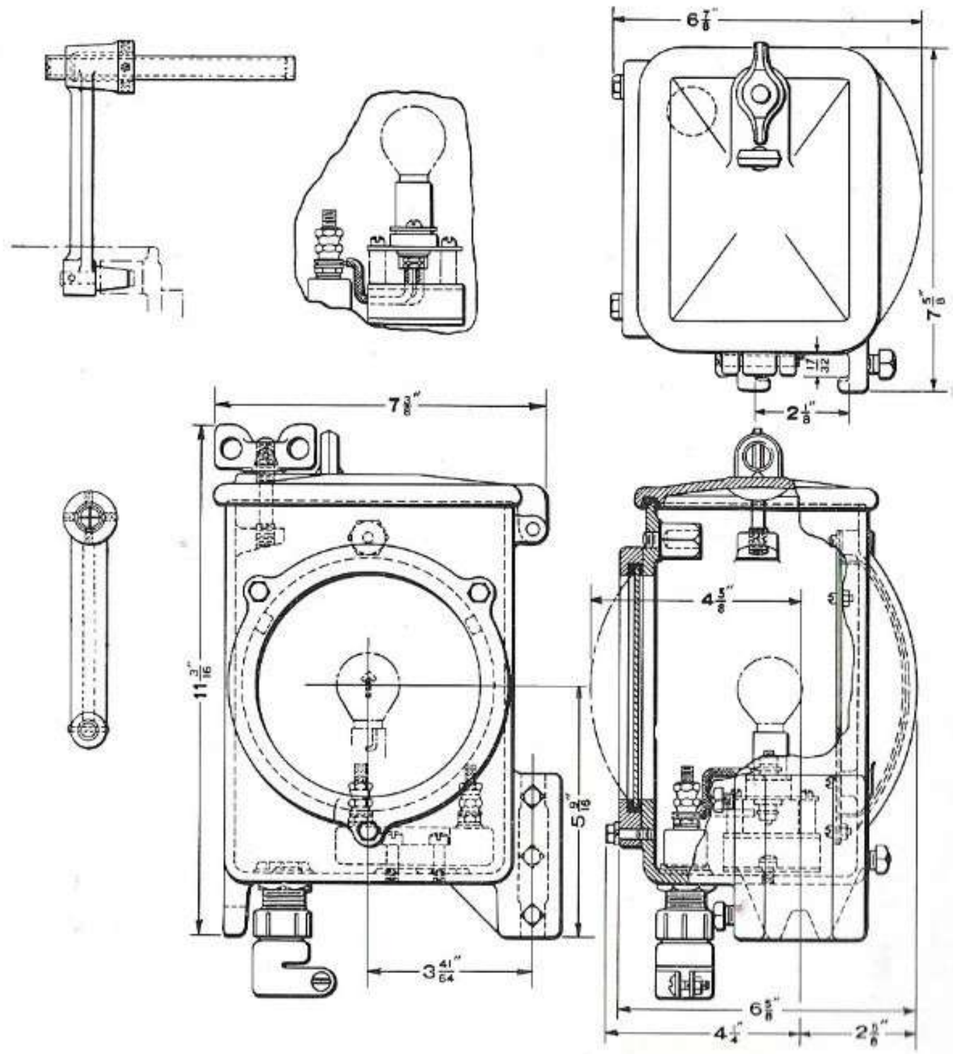


Style D Semaphore Lamp on Style T-2 Dwarf Signal

The Union Style D semaphore lamp uses an S-11, bayonet socket, candelabra base bulb. A most satisfactory night indication is obtained with the regular A.R.A. 0.25 amp. bulb. Any of the 0.25 amp. A.R.A. lamps with a filament position tolerance of $\frac{1}{32}$ to $\frac{3}{64}$ in. will give a satisfactory indication. A 5½ in. special heavy silver backed mirror, well protected by copper plating and baked enamel, insures a permanent reflecting surface. The lamp has a cast iron body and, on the top, a cast iron hinged door held closed by a winged screw which can be locked. The door on the top eliminates interference with the signal mechanism and also permits replacement of the lamp bulb without interfering with either the mirror or the lens. All cast iron parts are protected by two coats of baked enamel; all other parts are either brass or cadmium steel plated.



Style D Semaphore Lamp on Style T-2 High Signal



Detail of Style D Semaphore Lamp and Sighting Tube

The Union Style D semaphore lamp can be furnished with either a single or a double contact candelabra bayonet socket. This socket is accurately located for a lamp with a 1¼ in. light center length and is permanently secured in place at the factory.

Either a 5⅜ in. clear cover glass or a 40 deg. spreader glass of the same size can be furnished with the lamp. The spreader glass has small prisms distributed over its inner surface which produce the up or down spread and some horizontal spread, depending on the manner in which the spreader glass is mounted. It may be mounted, therefore, to give downward spread for high signals or upward spread for dwarf signals, improving the close-up indication from these signals. Special deflecting cover glasses also are available for various requirements.

Wires are brought into the lamp through a ¾ in. bushing and conduit connector, and are fastened to an A.R.A. terminal block. A sighting device, shown at the left in Fig. 1, is available to enable one man to accurately align the Style D lamp. This device has a tapered plug on the lower end of its supporting arm that fits into a corresponding tapered recess located inside the lamp case. Thus the seating surface in the recess may be kept clean, and perfect alignment is easily accomplished.

Ordering References

UNION STYLE D CAST IRON SEMAPHORE LAMPS

PIECE NUMBER	LAMP CONTACTS	COVER GLASS
149687	Double	Flat Clear Roundel for high and dwarf signals.
150196	Single	Flat Clear Roundel for high and dwarf signals.
150484	Double	40 Deg. Deflecting Cover Glass for dwarf signals.
140485	Single	40 Deg. Deflecting Cover Glass for dwarf signals.
151089	Single	Lunar White Convex Roundel.
150266	Sighting Tube, complete	

Other combinations of lenses for lamps to be used with dwarf or high signals can be supplied.